

Fig. 1

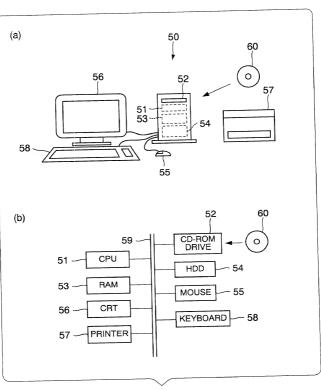


Fig. 2

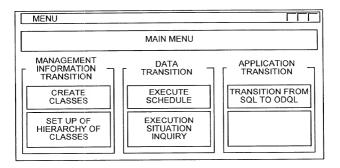


Fig. 3

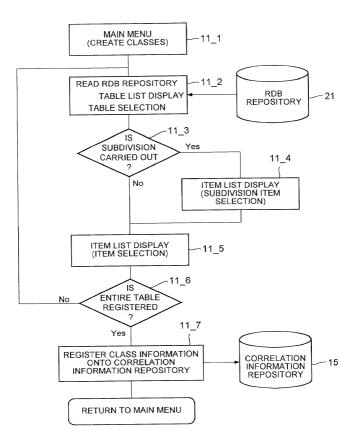


Fig. 4

S ITEM NAMES SIMAKER S OUNTRY S OUNTRY S MALL NUMBER S CHAR S TEL. 13 CHAR 6 FAX 10 MEXT MENU S OUNTRY 11 MAKER CODE S OUNTRY S OUNTRY S MALL NUMBER S OUNTRY OUNTRY S OUNTRY O	TABLE LIST					-
ITEM NAMES DIGITS	TABLES	AT	TRIBUTES			
1 MAKER CODE 3 2 MAKER NAME 30 3 MAIL NUMBER 8 4 ADDRESS 50 5 TEL 13 6 FAX 13 7 7 MENU SCREE			ITEM NAMES	DIGITS	TYPES	•
2 MAKER NAME 30 3 MAIL NUMBER 8 4 ADDRESS 50 5 TEL. 13 6 FAX 13 7 7 MENU SCREE	AKER	-	MAKER CODE	က	ΙΝ	
3 MAIL NUMBER 8 4 ADDRESS 50 5 TEL. 13 6 FAX 13 7 7 8 9 9 10 MENU SCHEE	OUNTBY	2	MAKER NAME	30	CHAR	
4 ADDRESS 50 5 TEL. 13 6 FAX 13 7	REFECTURE	က	MAIL NUMBER	8	CHAR	
FAX 13 FAX 13 MENU TEL. 13 NEXT	BEVERAGE	4	ADDRESS	50	CHAR	
FAX 13 NENU SCREE		2	TEL	13	CHAR	
MENU		ဖ	FAX	13	CHAR	
MENU		7				
MENU		ω				
MENU		6				_
		10				•
			MENU	SCRE	E.N	

Fig. 5

SET UP OF CLASS	=				TI	T
SET UP OF CLASS						
TABLES	_	AT	TRIBUTES OF MAKI			T-1
CLASSIFICATION	•	L	ITEM NAMES	DIGITS		制
1 MAKER		11.	MAKER CODE	3/////	INT\\\	1
2		2	MAKER NAME	30,\\\\	CHAR	
3		3	MAIL NUMBER	8	CHAR	11
4		4	ADDRESS	50	CHAR	11
5		5	TEL\\\\\\	13	CHAR	
6		6	FAX	13	CHAR	41
7		7				41
8		8				-11
9		9		ļ		-Ш
10	₹	10				▼
		1 2 3 4 5 6 7 8	ITEM NAMES	DIGITS		
		9				v
			PREVIOUS SCREEN	COMPL	ETION	

Fig. 6

Fig. 7

ATTRIBUTES OF BEVERAGES TEM NAMES 5 AGE BRACKET 10 FROAT 10 PERFECTURE CODE 11 INGREDIENT 12 PRODUCING CENTER 13 PRODUCING CENTER 14 INGREDIENT 15 ATTRIBUTES ATTRIBUTES 16 B B CHARA 17 INGREDIENT 18 B CHARA 19 PREVIOUS 10 PREVIOUS 11 INGREDIENT 12 PREVIOUS 13 PREVIOUS 14 INGREDIENT 15 B B CHARA 16 B B CHARA 17 INGREDIENT 18 B CHARA 19 CHARA 10 PREVIOUS 11 INGREDIENT 12 CHARA 13 PREVIOUS 14 INGREDIENT 15 COMPLETION 16 COMPLETION
ATTRIBUTES OF BEVERAGES A AGE BRACKET 6 PRICE 7 MAKER CODE 8 DEGREE 10 PREFECTURE CODE 11 MALT. 11 MALT. 11 MALT. 12 PRODUCING CENTER 13 PRODUCING CENTER 14 INGREDIENT 15 PRODUCING CENTER 14 INGREDIENT 16 PREVIOUS 16 6 17 TEM NAMES 18 8 19 PREVIOUS 10 PREVIOUS 10 PREVIOUS 11 TEM NAMES 12 PREVIOUS 13 PROPERIOR 14 INGREDIENT 15 PREVIOUS 16 PREVIOUS 16 PREVIOUS
1-0 0 4 0 0 N 0 0 0 P

Fig. 8

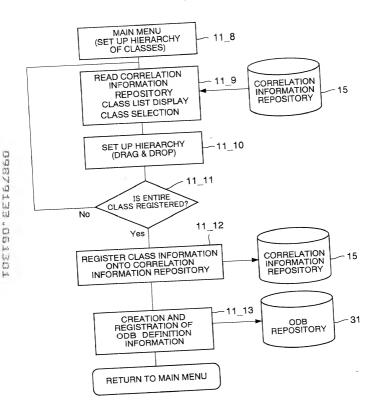


Fig. 9

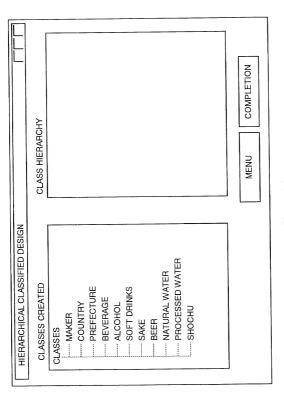


Fig. 10

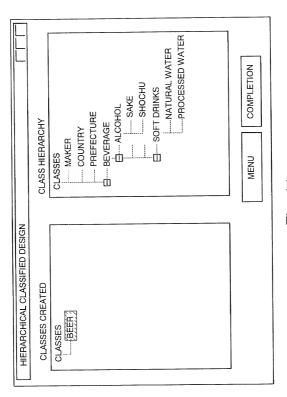


Fig. 11

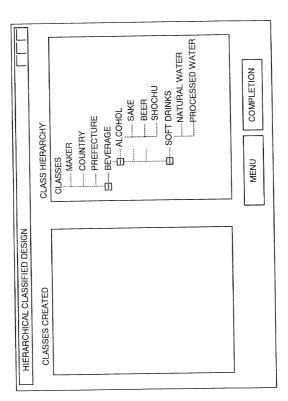


Fig. 12

-	MES	ų.		<u>ш</u>	1				CODE												
	ITEM NAMES	AAAKEB CODE	TANKINI TANKINI	MAKER NAME	I AIL	ADDRESS	T 1/4/4	IND.	COUNTRY CODE	1											
	ATTRIBUTES NAMES		MAKER CODE		MAKER NAME	200000	ADDRESS	MALT	1000	COUNTRY CODE		SNO					"BFFR"		S='BEEH'		
	3.1.1.1	TABLE NAMES		MAKER	MAKEB	MAKEL	MAKER	30,400,410	BEVERAGE	REVERAGE	7	SIOILION CONDITIONS	SOBOLINGIA				NOTE	MIDDLE CLASSIFICATIONS STATE	MIDDLE CLASSIFICATIONS='BEEH		
		S NAMES	2000	MAKER	INDIA.	MAKER	03/1411	MAKEN	BEER		BEER		HIERARCHY	-	-		-	3-1-2		3-1-2	
		C.L.	DATABASE NAMES		CLASS	000	CLASS	CLASS	934 10	CLASS	CLASS		INDEXES	YES	ON S	2	92	2	ON THE REAL PROPERTY.	YES	

Fig. 13

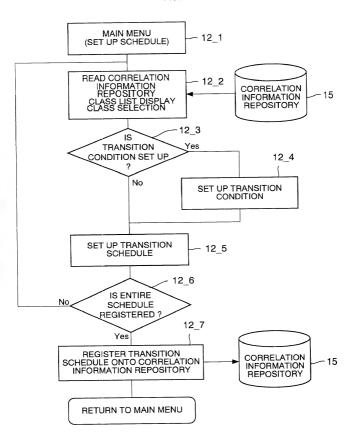


Fig. 14

Fig. 1

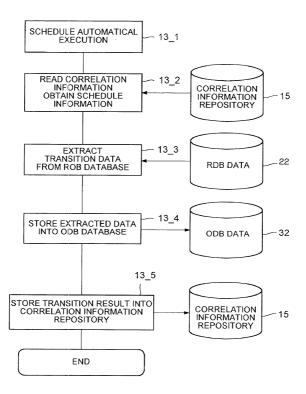


Fig. 16

CLASS NAM	IE EXECUTION DATES	EXECUTION TIMES	STATES	RESULT	•
1 COUNTRY	1998/12/25	18:00	COMPLETION	NORMAL END	Τ
2 PREFECTURE	1998/12/25	18.30	COMPLETION	ERROR	7
3 BEVERAGE	1998/12/25	19.00	IN EXECUTION		7
4 ALCOHOL	1998/12/25	19:30	NOT YET EXECUTION		7
5 SOFT DRINKS	1998/12/25	20:00	NOT YET EXECUTION		7
6 SAKE	1998/12/25	20:30	NOT YET EXECUTION		7
7 BEER	1998/12/25	21:00	NOT YET EXECUTION		7
8 NATURAL WATER	1998/12/25	21:30	NOT YET EXECUTION		7
9 PROCESSED WATE	R 1998/12/25	22:00	NOT YET EXECUTION		7
10 SHOCHU	1998/12/25	22:30	NOT YET EXECUTION		1
11					1
12					
13					
14					
15					
16					╛
17					
18					
19					ᅪ
20					1
21					4
22			L	1	•

Fig. 17

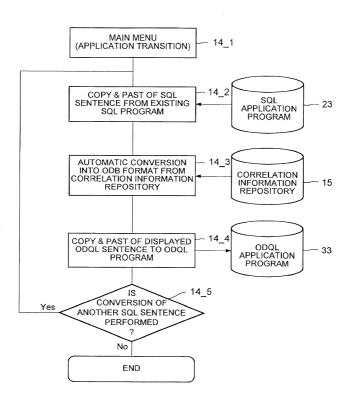


Fig. 18

TRANSITION FROM SQL TO ODQL
SQL SENTENCE
MENU CONVERSION

Fig. 19

_			
L	TRANSITION FROM SQL TO	ODQL	
	SQL SENTENCE		
	SELECT MAKER NAME, TEL		
	FROM MAKER		
	WHERE MAKER CODE=130		
	F		
		MENU	CONVERSION
ı	L		
_			

Fig. 20

TRANSITION FROM SQL TO ODQL
ODQL SENTENCE
[MAKER, MAKER NAME, MAKER, TEL]
FROM MAKER
WHERE MAKER, MAKER CODE=130
MENU CONVERSION

Fig. 21

MAKER CODES MAKER NA 001 KARYN 002 YONTOR Y 003 YUHI 004 HAKODATE	MAKER NAMES ARYN ONTOR Y	SECUENCE OF THE SECUENCE OF TH				
	N OORY	HEAD OF ISSUE	YEARS	ANNUAL SALES		
	ORY	TOKYO-TO	1930	MILLION		
		OSAKA-FU	1915	MILLION		
	-	TOKYO,TO	1896	TISO HUNDHED		
		2.2.2.2		680 HUNDRED		
	HAKODATE	TOKY0-T0		2300 HUNDRED		
005 COCA	COCA-COLA	AICHI- KEN	1980	MILLION		
(a)					Cicio	MAKER CODE
BEVERAGE	LARGE	MIDDLE	CLASSIFICATIONS	AGE BRACKETS	PHICES	
T	CLASSIFICATIONS	BEER	BOTTLE	30,8	300	100
	3015	ODTAW INCIDEN	NAC	10'S	120	012
KOKEN NO SOF	SOFT DRINKS	NAI URAL WAI LIII	1,1100	2,00	150	004
UZIWI	SOFT DRINKS	WATER	PEI BOI ILE	Siese	220	1001
┞-	ALCOHOL	BEER	CAN	200	1300	000
+	ALCOHOL	SAKE	BOTTLE	40'S	2001	_
EISU NO MAINDAI				_		_
_						
DEGREES	CLASSES	PREFECTURE	MOLTS	COUNTRY CODE		
50			15%	002		
		800				
		200		9003		
9			20%			
	-	010				
g						

-ig. 22

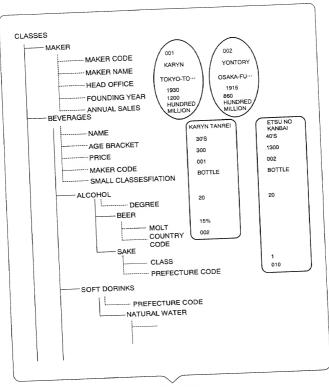


Fig. 23